



**TNCHE Asia 2025 Conference**  
**" Accelerating Industrial Decarbonization:**  
**Digital-AI and Energy Transformation "**  
**Presenter's Biodata & Abstract**



**Full Name** : Vinay Avashti  
**Organization** : Topsoe A/S  
**Current Position** : Senior Licensing Manager

**Title of Presentation** : Blue Hydrogen- groundbreaking solutions for Hydrogen production at Scale

**Presentation Abstract:**

Blue hydrogen presents a transformative solution for large-scale hydrogen production, enabling significant decarbonization by leveraging existing natural gas infrastructure. Topsoe's advanced technologies facilitate the production of ultra-low carbon intensity blue hydrogen, achieving up to 99%+ CO<sub>2</sub> recovery, significantly surpassing the industry standard of 90-95%. This high efficiency in carbon recovery is crucial for meeting the growing demand for hydrogen across various sectors, including chemicals, fuels, cement, steel, refining, and petrochemicals. Scaling up production offers clear benefits, such as capturing economies of scale and minimizing the levelized cost of hydrogen (LCOH). The global push towards a net-zero economy underscores the importance of blue hydrogen, with many companies, countries, and regions developing strategic hydrogen plans. Topsoe's integrated solutions and proven technologies ensure effective decarbonization, positioning blue hydrogen as a vital component in future energy strategies.